

# Leading the Launch



IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

*Delivering a payload of  
responsive technologies*



## Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS



## Neutron-Neutron Moisture Probehole Log

### *Problem*

INEEL's Radioactive Waste Management Complex (RWMC) Remediation project needed to determine the water content of soils surrounding buried wastes without exposing workers to transuranic (TRU) or hazardous contaminants.

### *Baseline Technology*

Conventional in situ technologies could not be placed without removal of hazardous and radiological materials.

### *Innovative Technology*

The Neutron-Neutron Moisture Probehole Log allows direct measurement of soil water content through steel probetubes.

### *Comparison*

This logging tool measures soil moisture content in buried waste sites without removal of potentially hazardous materials.

### *Benefits*

This tool enabled the RWMC Remediation project to determine the moisture content of soils surrounding buried TRU waste so that potential explosive hazards associated with the waste could be evaluated.